

## Technical Data

### Product Description

Characteristics: High flow.

Application: Zipper, electronic parts, press-in fasteners, gears, and electronic parts. Automotive parts, Household appliances, Other small mechanical parts

Also known as FORMOSACON

### General

Material Status	• Commercial: Active
Literature <sup>1</sup>	• <a href="#">Technical Datasheet - Data Table (English)</a>
UL Yellow Card <sup>2</sup>	• <a href="#">E173318-226133</a>
Search for UL Yellow Card	• <a href="#">Formosa Plastics Corporation</a>
Availability	• Asia Pacific • Europe • North America
Features	• High Flow
Uses	• Electrical/Electronic Applications • Fasteners
Forms	• Pellets

Physical	Nominal Value Unit	Test Method
Density / Specific Gravity	1.41 g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	27 g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	1.8 to 2.2 %	ASTM D955
Water Absorption (Equilibrium, 23°C, 69%RH)	0.22 %	ASTM D570

Mechanical	Nominal Value Unit	Test Method
Tensile Strength (Yield)	60.8 MPa	ASTM D638
Tensile Elongation (Break)	45 %	ASTM D638
Flexural Modulus	2550 MPa	ASTM D790
Flexural Strength	93.2 MPa	ASTM D790
Compressive Strength		ASTM D695
1% Strain	31.4 MPa	
10% Strain	108 MPa	

Impact	Nominal Value Unit	Test Method
Notched Izod Impact (23°C)	53 J/m	ASTM D256

Hardness	Nominal Value Unit	Test Method
Rockwell Hardness (M-Scale)	80	ASTM D785

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		ASTM D648
0.45 MPa, Unannealed	158 °C	
1.8 MPa, Unannealed	110 °C	
Vicat Softening Temperature	162 °C	ASTM D1525
Melting Temperature	165 °C	DSC
CLTE - Flow	8.5E-5 cm/cm/°C	ASTM D696

Electrical	Nominal Value Unit	Test Method
Surface Resistivity <sup>4</sup>	1.0E+16 ohms	ASTM D257
Volume Resistivity <sup>4</sup> (23°C)	1.0E+14 ohms·cm	ASTM D257
Dielectric Strength (2.00 mm)	24 kV/mm	ASTM D149
Dielectric Constant		IEC 60250
50 Hz	3.80	
1 kHz	3.80	
1 MHz	3.80	



Flammability	Nominal Value Unit	Test Method
Flame Rating	HB	UL 94

**Notes**

<sup>1</sup> These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

<sup>2</sup> A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

<sup>3</sup> Typical properties: these are not to be construed as specifications.

<sup>4</sup> 50%RH



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## Where to Buy

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### Supplier

**Formosa Plastics Corporation**  
Taipei, Taiwan  
**Telephone:** +886-2-2712-2211  
**Web:** <http://www.fpc.com.tw/>

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### Distributor

**A. Westensee und Partner Rohstoff GmbH**  
**Telephone:** +49-4171-8812-0  
**Web:** <http://www.awp-rohstoffe.de/>  
**Availability:** Germany

### Click Plastics AG

*Click Plastics AG is a Pan European distribution company. Contact Click Plastics for availability of individual products by country.*

**Telephone:** +49-6251-770-690-0  
**Web:** <http://www.clickplastics.com>  
**Availability:** Germany

### POLYMIX

**Telephone:** +33-3-8920-1380  
**Web:** <http://www.polymix.eu/>  
**Availability:** Croatia, Portugal, Romania, Serbia, Slovenia, Spain

